FIGURE 1

```
   1 gcgtgagcca ctgcgccctg accacatata atttttatta attataatgt tgaaagtccc
  61 tttattccac acctctcctc tcattcactc ctggtaggtc atttttaatg atttgatgta
 121 tatactgaat ttggatgctt cttgctacag ggcaaagacg ctaataagat tttgctggag
 181 ccttttcaca gatgcaagtc aatccaggca gtgtctatag ctgctgaacc caaaatcaga
 241 aagcgagggc tatcaaagct cttctgtcct gatttgcaac tttagtagtg caagaaaaaa
 301 aatcttagaa taaaaaatgg gtaccgttca gagacctta gagattgcaa ggcatcacag
 361 atgataaaaa gctccatctc tagacgtgtt caggagtggg ttggggcttt gaccttgact
 421 agctgcatca acttggacaa gtcacttcgc ttccctgtgc ctcagtttcc tcatccataa
 481 aatggggata agtatagtac ctacctcata agtcctgcct acctagcaca tggtgagcaa
 541 ttactaaatt gtaggcctag tccctataat cccagcactt ttggagaaca aggtagggga
 601 atcgcttgaa gccaggagtt ccagaccagc ctggccaaca tagtgagact gtgtttctat
 661 aaaataaaaa aaaaaaatac ccaagcttgg tggtgcaggc ctgtagtccc ggctacttgg
 721 gagtctgagt caggaggatt gcttgagccc aggagttcaa ggttgtagta agctatgatt
 781 gcaccactgc actccagcct ggcgacagag catgaccctg tctctaaaaa tataaaatta
 841 ggccaggcac agtggttcat gcctgtaatt ccaacatttt gggaggccaa ggcaggtgga
 901 tcactgtgag ctcagcagtt cgagaccagc ctgggcaaca aggcaaaatc ctgtctctac
 961 taaaattaca aaaattagcc aggagaggtg gtacacgcct gtaatcccag ttactgggga
1021 agctgaagca ggagaattgc ttgaacccgg gaggcgaagg ttgcagtgag ccaagatcgt
1081 gccattgcac tgcagcctag gagacagagc gagactcgat ctcaataaat aaataaatta
1141 attaattaat aaaaaaataa gttgggcatg gtggcacctg cctgtagtcc aagctactca
1201 ggaggctaga ggtgggagga tcacttgagc caggagttct aggctgcagt gagctattat
1261 cacgccacca tactccagcc tgctgtatgt actccagcct gggcaacaga gtgacaccct
1321 gtctcaaagt aaagtaaaat aaaaattaaa aaacaaatta ctaaattgta cttaacagta
1381 ttgtcatcag tcttcctaaa taggaggaca ggcaaaatta agggacttaa catgtgccct
1441 caggtatagt agtttggggc aggccagcat cacccgcaca gtagttctgt actgtaggtg
1501 cgtgttctct gggtcaactt tatggcccag tgaggccgta ctctaccaga atgtcagggg
1561 acaagggttg ggagaggcaa aagtgctggt ctgaagcagg agtctgggtt tccatcctag
1621 ctctaccacc aattctgtat gaccgtgccc cctccatttc ctccatgacc acatagagac
1681 atggggcagt tggatgaaat caatgattcc cagtcttggc tctatcatgg aaccatttgc
1741 taacttcttt ttttctctta tggatcccat attttaaag atttttacta aatagaaatt
1801 gacttatact tttccaagct ggagtgtggt ggcatgattt cagctcactg caacctccgc
1861 ctcccgggtt caagtgattc tcctgcctca gcctcctgag tagctgggat tataggtgct
1921 caccaggccc ggctaatttt tttgtatttt tagtagagac agaatttcac catgttggcc
1981 aggctgattt caaactcctg acctcaagtg atctgctcac ctcagcctcc caaagtgctg
2041 ggattacagg cgtgagtcac tatgcccagc cgcttactca cattttctag tcaaaataga
2101 aaactgctta agtcactgtc tgcagaagag caaaaaaaaa aaagaaata aaaaattgaa
2161 aactgctgat cagattgaga aaaacataag attattcacc acctaaagag aaaaaatttc
2221 agtcgaaagg gaaaaaatt cattttgtc ttaataaggc aaattcacaa ttttttgaggt
2281 tttaacaaaa tatatgcaga aagacaaggc caccccgtag aacgtgcaca cagccctagg
2341 cttggaaatg gctggattta ataatatctg gtctttcttt gagccctgaa attctctaac
2401 actatgtctt ggaacataat tttactgttt tcagtggtta tagagatttg ctttacaatt
2461 tagcattggt cttttaccat gattttgttt gacgccaact tgttggcagg aatgcacccc
2521 ctgccccccg ctttgttatg gccttgctcc tataggcaa gaatatctgc tttaaggccg
2581 ggtgtggtgg ctcaggcctg taatcccagc actttgaggg gccaaggcgg gcagatcacc
2641 tgaggtcagg agtttgagac cagcctggcc agtatggtga atcctgtct ctactaaaaa
2701 taacaaaaat tagctgggtg tggtggcaca cacctgtaat cccagctatt tgggaggccg
2761 aaacaagaga accacttgaa cccaggaggc ggaggttgcg gtgagccgag attatgccac
2821 tgcactccag cctgggaaac agagcaagat tccgtctcac acacaaaaaa tatatatatg
2881 tctgctttaa gtatgcaggc cgtgtttgtg ctgaacggca ggaatgccaa acttggctgc
2941 atggtaccaa ctaggacct cagagttcca aggagaacaa acagttggtt cctggaggct
3001 gggggcttgt atcagaccct gaagactaag catgtgctgg tccattgtt gtcctgcacc
3061 catggtagtg cactaaacac ctaacctata tttaagtgtt tttgtttgtc caaaaaatgt
3121 cttttttttt tgggagtcaa gagtcttgct ctgttccca ggctggagtg cagtgacacg
3181 atctcagctc actgcagcct ccgcctcccg ggttcaagct attctcctgt ctcagcctcc
3241 caaatagctg agactatagg cacgcacatc catgcccagc taattttttt atttttagta
```

FIGURE 1 (continued)

```
3301 gagacgaggt gtctccatgg tggccaggtt ggtcttgaac tcctgtcctc aagtgatcca
3361 cctgcctcgg cctcccaaag tggtgggatt gcaggcatga gacaccgcgc ccggcctgcc
3421 ttgtcccttc ttaaaatgag ttgtccattt gtaagctgct gatttctttg ggacattgtc
3481 tccgtaaact tttcataaag catcagtgat ttcaccattc ttccacccaa gcttcaccgt
3541 aaatttgttg tttgttcttg cttcaatttc agcagaattc atttagctct gataagggct
3601 cgcttcaaac tgatgtctta tccttcttag tgcctcaaac tacatcctgt tcactcatgt
3661 tatagcaagt tagtgtgagt ttattttggt gcacaaaaat ttttttaaat ccatgcagtc
3721 ttttttcata atacgcattt tccatgaact tttcgaagac cccttgtaga tgtctgttgt
3781 ttaaaccacc cagtttacag taattttttt tttttttga gatgaagtct tgctctgtcg
3841 cccaggctgg agtgcattgg cacactctcg gctcactgca acctctgcct cctgggttca
3901 agcaattttt ctgtctcagt ctcccgagta gctgggatta caggtgtgtg ccaccatgcc
3961 tagctaattt atgtgttttt agtagagacg gggtttcact atgttggcta ggctggtctc
4021 gaactcctca ccttgtgatc ggcccgcctc ggcctcccaa agtattggga ttacaggcgt
4081 gagactcttg cacttggcct acagtaattt tatagcagcc taggctaaga tagccatttc
4141 tgggtataag aatgtcatat actgaacagg cctgcaactg tgagtaaaag tctgcaaaga
4201 ggccgggcag tggctcatac ctgtaatccc agcactttgg ggggccgagg caggtggatc
4261 acctgaggtc agcagttcga gaccagcctg accaacatgg tgaaacccca tctctactaa
4321 aaatacaaaa ttagctgggc gtggtagtgc atgcttgtaa tccctagcat gcacttggga
4381 gctacttggg aggctgaggc aggagaatca cttgtactca ggaggccgag gttgcagtga
4441 gctgagatca cgccactgca ctcctttctg ggtgacagag tgagactcca tctcaaaaaa
4501 acaaaacaaa acaaaacaaa aacaaacaaa aaaacccaac aggtaggtag cagtggttca
4561 cgcctgtaat ccccactttg gaggctaaag tgggcagatc acctgaggtc aggagttcac
4621 gtccagcctg ggcaacatgg tgaaactctg tctctacaaa aatacaaaaa ttagccaggc
4681 atgatggcgg gtgctgtagt tccagctatt cgggaggctg aggcaggaga atcgcttgaa
4741 cctaggaggt agaggttgca gtgagccgag ttcacgctat tgcactccag cctccatctc
4801 aaaacaaaca acaaaaccca aaatatatat tataatttta ttttatttat tcaattttat
4861 tttatttttat tttatttttc taggaacagg tctcattcag gccaggcatg gtgctcacgc
4921 ctgtaatccc agcacttggg aggccgaggt ggaggtgggc ggatcacctg aggtcaggag
4981 ttcgagccat cctggtcaat gtggcgaaac cccatctcta ctaaaaatac aaaaattagc
5041 caggtgtggt ggcacacgcc tgtaattcca gctacttggg atactgagtc aggagaatca
5101 cttgaacagg gagatggaaa ttgcagtgag ccgagattgt tccactgcac tccagcctgg
5161 gtgacagggc gagactccgt ctcaaaaaaa aaaaaaaaa agaaagaaag aagaaagaa
5221 agaaacagga tcttactctg ttacccaggc tggagtacag tggtgcaatc atagctcact
5281 gcaggcatgc accaccattc ccagctaatt tttaattttt tttggtagag atgagggtct
5341 tgctatgttg cccaggctgg tctcaaactc ctggcctcaa gcgatcctgc catgtcggcc
5401 tcccaaagtg ttgggattac aagtgtgagc cactatgcct ggcctaaaaa tatatatatg
5461 aaaatatata agaaatgggc ctcccaggaa ttaaggtgtt tgcgggagtc ctggtcccca
5521 gttttctgc caacactccc tgttcccaca catgacctgg tccagacccc aaacagccag
5581 gcccaaagga caggtgaggc gaggcgagaa cttgtgcctc cccgtgttcc tgctctttgt
5641 ccctctgtcc tacttagact aatatttgcc ttgggtactg caaacaggaa atgggggagg
5701 gacaggagta gggcggaggg tagggtagga ccagaagcct ctctaggcct gccatggggc
5761 aggcagccag ggagaaggag ggcccctcag tggagaccca gggatttcag tagccctgt
5821 tccgggacag gcgcaggtcc tgggaggtga cagaagatag actaaaggcc caagagtccc
5881 tggacctgac tcctcccagc agctgccaca cacaaacaca cctccaggca ccctggacag
5941 gaaggaggag aaatgggccc ctcctccagt ggctgagaag ctggggcaaa tgttggctgt
6001 tcctatccct ggtgcatccc atggcgaggg gcaacttcca tcaggccaca ccttttatct
6061 ttgtctctat ttttgatatc tgtgtattat gattatacaa acccccacat tggcctatat
6121 gtgcagatct gattaagaac ttacgatatt ccatggacat tccattccta atctccttta
6181 gtcctcacaa caaagtatta ttcccattgt atagatgagg aaactgaggc acacagagat
6241 gacaagcaac caccgctata tgttaggatt cgaaggagct ccaggaaagt ctcatagccc
6301 cactggccag aatgggctaa atctcagagg gggagggtgg gagatggggg tgacagtgac
6361 cttttttgtg actcctccta gaccatccat ccctgctccc aggaggacct gtcctcccag
6421 atggtggaga tggacaggag gactatctac ccaccgtcc ccacggccct gaccctctga
6481 cctcaccctc tccgctgatt tcttcatgtt agttcaacat acccagagg ggtcaggaca
6541 gacaattcct cagtgaccca ggagctgaca cactatggcg cacgtccgag gcttgcagct
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FIGURE 1 (continued)

```
6601 gcctggctgc ctggccctgg ctgccctgtg tagccttgtg cacagccagc atggtaaggg
6661 agtgcttgca ggctggaaca ggctggagga ctggggtgtg ggcccatggg ctggggtctc
6721 ctggctggac agagcacaca gagctggccc ctaagtaggt ctcagcccca ggcggccagc
6781 ttagggaaga agtcaggagc tcagggctgg aaagagaatg gctgcttctc tcttccaata
6841 tagggagcag gctgggggca aggggcagtg taggaggggc acaggggggcc acatttagca
6901 gccttccagg ccttccacca gcccagactg cctctctcag aagccagcag gggagggtgg
6961 gcttgcttca tgcccccaga tggccaagac tgcctgttcc tgaggtcgct gttccatgac
7021 cccccaccg cctttacagt gttcctggct cctcagcaag cacggtcgct gctccagcgg
7081 gtccggcgag ccaacacctt cttggaggag gtgcgcaagg caacctaga gcgagagtgc
7141 gtggaggaga cgtgcagcta cgaggaggcc ttcgaggctc tggagtcctc cacggctacg
7201 gtgagcctgg gctgctcgga cggtgccggg gcctcagacc gggcccaact ctagacactt
7261 ccacagagaa gcaagcgagg aacgccacag ccccttcgct gctcacagcc tcatttcaac
7321 tctgagcccc tcctcacagg gctggcaaga ggagcggcct cagccttttcc tggggggtctc
7381 tgtgcctgga ctgtgtccct gtgcagctcc atgacatggg gaggcctcca cagtcttcag
7441 acatccacct gccttggagc tctgtgtcca catggcctcc tcagcggcag actcccacac
7501 cacccttgag gggtgggact ctggggaggc caccacaagc ccccgggctc aagactcagt
7561 gttcctggag ctctgtgtcg cctttcctgt ctgtagggac tctgccaggg acccactgcc
7621 ccctctcctc ccatctcccc cagcctcttt cagactcggt gtgtgtgttg gaggaactcc
7681 cctatcctca aatattcttc tccttttgga aacaaaagta ggaaactctg ccacaaacct
7741 ccccagagcc tgcccccctgc gtgaccaggg taaggaaagt gtgaggagga gcataacatt
7801 tactaaaaca acacaaaaca ggagctgccg tagcctcact cccagccctt gttttttcagg
7861 atgtgttctg ggccaagtac acaggtgagc accgggaagg atttgcccca ggaagggagg
7921 cctggggacc ccagtgagag aattctaccc agagaatctt ctgctgcacc tagccatcca
7981 cccatccacc ccttccccac tccttccttg gtccctccca tctgttcatc catctttctg
8041 tttctcacca acatcccatc caccctgact ccagctcatc ctggccatac cccaatccca
8101 aaggtaaaca cctgggtctt ttccagcttg tgagacagcg aggacgcctc gagataagct
8161 tgctgcatgt ctggaaggtg agcaactgac acgggtttgg ggagcaggac atggagggga
8221 gcttgggaga agagctcagg ggtgggtttg gagtgtggct ggtggaggcc gaggcagtcc
8281 ccagcatctg acattgctcc cattcctggg gtcaagatgt ctctttgtac ctggctctgt
8341 gtctggcatg cgaacgaatg aatgaatgaa tggactaatg aattaatgtt ttttttttttg
8401 agacagagtc tcgctctgtt gcccaggctg gagtgcagtg cacgatctt ggctcactgt
8461 aaactccgcc tcccggattc aagcaattct ctgcctcaac ctcccaagta gctgggatta
8521 caggtgctcg ccaccacgcc tagctaattt ttgtattttt agtagagacg gggtttcacc
8581 atgttggcca ggctggtctt gaactcctga cctcgtgatc cacccacctc ggcctcaaag
8641 tgctgggatt atagaagtga gccaccgcgc ctggccatga attcatgttt aaggcttcat
8701 tctcctttgc ctgacccgag tctctgcccc cacctagtca gagctttgat gatgtcacat
8761 tccccttcta gctttaggtg tcactgaacc aaacaggaac ccaaacccccc agctgctctg
8821 acaccaagga cttccctaag catgccaagg tgtttctagc acctggcctt gcatatgttg
8881 tcaatttcct ctggagcgac catcacatct actgaacact ttcctatcct tcaaggactg
8941 cttcaaatgt caccacttttt gctgagactt cagggagcac cctccctcct gcactgtgtc
9001 tgaaggcacc tttagcacga caaaaatgga actctttgtt tatttataag agcagggtct
9061 ccctttttttg ccaggctgat cttgaactct tgggctcagg caattctccc atctcagtct
9121 cccaaaggag tggattataa gtgtgagcca ccatgcctgg ctgccatact ttcattttttt
9181 tttttttttt tttgaggtgg agtctcactc tgtcgcctag gctggagtgc agtggcgcga
9241 tctcggctcg ctgcaacctc cgcctggcgg ttcaagtgat tctcctgcct tagcctcctg
9301 agtagctggg attacaggca cacactacca tgcccagcta attttttgta tttttttagta
9361 gagacggggt ttcaccatgt tggccaggct ggtcacaaac tcctgacctc aggtgatcca
9421 ccagcctcag cctcccagag tgctgggatt acaggtgtaa tccactgcgc ccagcctcat
9481 ttgttaaatt acgtactcaa cagacatttt acaaagttcc tgctacgtgc caggcactat
9541 atcaggtgct ggggatttta agagaatcaa atacagtctc tgccttcaag gaattcaaaa
9601 tctcaaaaga gaacaaaaat acaaaatatt aaaatgattg cggccgggtg tggtggctca
9661 agcctgtaat cctagcactt tgggagctga ggtgggcgcc caggccaggg gtttgagacc
9721 atcttggcca acatagtgaa acccccaacc tctactaaaa atacaaaaat tagctggggt
9781 gtggtggcac gcgcctgtaa tcctagctac tagggaggct gatggggaga atttcttgaa
9841 tctgggaagc gaaggttgca gtgagctgag atcatgccac tgcaccttca gtctcggcat
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FIGURE 1 (continued)

```
 9901 cagatcaaga ctcatctcaa atacataata aataataatt caataagtga ttgcaagaaa
 9961 gttctgttca aggcaccaag agaccacagg aaaatgagtg tctggtttgc cagaaaatga
10021 gagatggctt cccaggagag gcagagttct gcctggccta gtgggatgca tggatgaaca
10081 aacaagtggg cattccagtc agaagaaaca atccgtggaa agacccagag gcatgagaag
10141 ctgagctagc agggacaggt agaccagggc cagttgaaaa ggaccttcat cacttttttca
10201 tcctgctggc caagagaagc cacagaatgg aagctccatg agggcagggc tgtgactgtc
10261 ctattggttg atgtgtactg agcacccgac agtgcctgtc atatggtagg cacttagcga
10321 atatttggag gccactgttg agtgaatggg agaactgctg gttgcagagg aagaggggct
10381 gggtgaatgc aggttcagga ttgtggacct gcatgagctg ggaggtgggg gatagacaac
10441 tttgcaggga gagaggaaat aagtccccag gctccaaggc tgaccggggt ggggtctccg
10501 caggtaactg tgctgagggt ctgggtacga actaccgagg gcatgtgaac atcacccggt
10561 caggcattga gtgccagcta tggaggagtc gctacccaca taagcctgag tgagtgaggg
10621 gtcggccttc ccaccatggg ctgagaacag ggagcaagcg tacctcaagt tcaacagcct
10681 cctgttgggc aatttcctct tccagaatca actccactac ccatcctggg gccgacctac
10741 aggagaattt ctgccgcaac cccgacagca gcaccacggg accctggtgc tacactacag
10801 accccaccgt gaggaggcag gaatgcagca tccctgtctg tggtaggctg ggggcagtgg
10861 ggcgacccat gaccaagccc ggggcttca tggggcctgg cagcctggga tgggaaccaa
10921 gaatactggc tacccaggca cagtggctca tgcccgtaat cccagcactt tggggaggctg
10981 aggcaggcag atcacctgag gtcaggggtt tgagaccagc tgggccaaca tggcaaaacc
11041 ccgtctctac taaaaataca aaaattgcca ggcgtggtgg tgggcgcctg taatcccaac
11101 tactctggag gctgaggcac gagaatcgct tgaacccggg aggcggagtt tgcagtgagc
11161 tgagatcctg ccactgtact tcagcctagg cgacaagagc aaaactctgt ctcaaagaaa
11221 aaaaaaagat gctggccacc ttcagagctg gcgtcagtca ttcagatcat atctgtgcct
11281 attgctcagt aaagtcaggg aatcagggga tctgagtggg gggatctgcc agcctcctcc
11341 tcccccctccc cactcttgac ttccttatgg tctaggctgt ggctcattcc aaacatgcct
11401 cctttctgat caaggcactc ctccctccgg gaagccctcc ctagccattt cagtccacac
11461 accctgttct gagtatcaca gagcaagcct tgtgcagttt ggcccgcggg attctgtcat
11521 tattatttcc ttggtgtgtt aagtagctat agccaccct tccctgaggc agaccacaat
11581 aagcatttct ttttcccatg agggttggca ggtgtggctg cactcgctaa tgcgtctgta
11641 gggtcaactg acggaggttg ccctggctg ggtggctctg attcaaataa tgggtccagc
11701 tgagtctggc tcctcgttga gggttgggcc tagatctgct ccacgtgcgt tcatgctggg
11761 gctgaggctg aaagaaggta cctgggaaaa ctcttcttat gctgatgaca gacacagaaa
11821 acaatgaaca gaaaagcgtc ttctgtcctg aaggcctggc tcagaacagg cacagtcagc
11881 cctgcccacg ttccattggc cagagcaagt atatgttcaa ggccagggtc aagaggtaaa
11941 ctacacctca gcctgtaaaa tcacagagca agggatgtgg atgcaggcag gggtaaagaa
12001 tttgtgccga ttaccagtcc acaaacatgc gttagtgttt gttctctagg caaccctgtc
12061 gggcccattg ctcattcctg gggttggtct tttttttttt tctttctaag aaggagtctc
12121 actcccttgc ccaggctgtt ggagtgcagt ggccctatct cagctcactg caacctccgc
12181 ctcctgggtt caagcgattc ccctgcttca gcctcctgag tagctaggat tacaggcgtg
12241 tgccaccact cctggctaat ttttttttat gttagtagag acggggtttc accatgttgg
12301 ccaggctgat ctcaaactcc tgaccttgtg atcctcccgc ctcggcctcc caaactgctg
12361 agattacagg ggtgaggcac tgcgcccagc cattttttt tttttttttt tttgagatgg
12421 agtctcactc tcacccaggc tggagtgcag tggcataatc ttggctcact gcaacctcca
12481 cctcctgggt tcaggcgatt ctctgcctca gcctctcata tagctgggat tacaggcaca
12541 cgccaccacg ccttgctaat tttgtatttt tagtagagac ggggtttctt catgttggcc
12601 ttgcctgact tgaactcctt gttccggtga tctgcccagc tcggcctccc aaagttctgg
12661 gattacaggt gtaagccact cgcgctggcc cctggtattg tcttatagc aagtttatcc
12721 caacaaaaac agctactatt tactccccaa ccccataca cacgcacaca cattgatgat
12781 aaataagttg caggcttgca gaaattggcc catccaggtg aacagcctag tgatccgagc
12841 aagcgtcctg ctgtgcagct ataaaaacat gactcctcca gcagctccag gcagccacta
12901 ccagttggtt acagatggcc taggaggcca aacctggtta ctatctctgg tttattatgt
12961 gccagacact tatgctgtat attttgttta atcctctcaa caaacctgca aaagtggcat
13021 tagtaacccc tttaaaggca aacggtcaga agcccagaga ggttaagtaa cctgaggtca
13081 cacaggcaga aagcagcaag accggggttc acacccctgt ctgttccggt ccatgtgtgg
13141 tctcactcac tctgctgcct ccttgcccct cacccaccag gccaggatca agtcactgta
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FIGURE 1 (continued)

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13201 gcgatgactc cacgctccga aggctccagt gtgaatctgt cacctccatt ggagcagtgt
13261 gtccctgatc gggggcagca gtaccagggg cgcctggcgg tgaccacaca tgggctcccc
13321 tgcctggcct gggccagcgc acaggccaag gccctgagca agcaccagga cttcaactca
13381 gctgtgcagc tggtggagaa cttctgccgc aacccagacg gggatgagga gggcgtgtgg
13441 tgctatgtgg ccgggaagcc tggcgacttt gggtactgcg acctcaacta ttgtggtgag
13501 ctgcctgggt aggggggcctg agttgcaggg acaaatccta gtgggaataa caacagccgc
13561 ttctgcttat cgaacgctta cctcattgag tgcgctcatt acagccttac agtaaccagg
13621 tggggggtaa ggtcctgtgc ccatttcaca gataagtaca ctgaggcccc aggaggttat
13681 tgcctagtag cccaactgtg catgcacgct taacctctgc accaaatggc ctccaaggcc
13741 cgtaggggaa ctggggggat ctagggatg ggtgaggaat ggcccagccc agtcccggcc
13801 ggtgcctggg tcccaacaga ggaggccgtg gaggaggaga caggagatgg gctggatgag
13861 gactcagaca gggccatcga agggcgtacc gccaccagtg agtaccagac tttcttcaat
13921 ccgaggacct ttggctcggg agaggcaggt gaggtagtgg gcatccgagg ggatgcgggg
13981 ctgcggggct ggtggccagg acttgcccct cactgcttgg cttgctctgc agactgtggg
14041 ctgcgacctc tgttcgagaa gaagtcgctg gaggacaaaa ccgaaagaga gctcctggaa
14101 tcctacatcg acgggcgcat tgtggagggc tcggatgcag agatcggcat gtcaccttgg
14161 tgtgtcctgg agccctgcgc taccattcac tcctgggggc aggtgtgctg ctggaccccc
14221 accctcaggc cctgcctgca ggcctgggct ttacagatga caacagctga gcatccagga
14281 tcccaccaac tccacacagc agccacatga gatgggttgt ttacttcttt ttttttttgtt
14341 tcttagatgg agtcttgctc tgtcacctag gctggagtgc agtgctgcaa tctcggctca
14401 ctacctcgat ctcagctcac tgcaacttct gccttccggg ttcaaacgat tctcttgcct
14461 cagcctcctg agtagctgaa tttacagaca tgcgccacca cacccggcta attttttgtat
14521 tttaagtaga gacagggttt caccatgttg gccaggctgg tcttgaactc ctgacctcaa
14581 gtgatccacc tgcctcagcc tcccaaagtg ccgggattac aggcatgagc caccacaccc
14641 ggcccatggg tcctttactt ctaagcagat ggtaaagctg agactgacgg agctggtggc
14701 tcacctccgc gcacagctaa tgggtttgaa tccagttctt ctgattccag agctgtgcta
14761 cgctatgtga actctggact ggaaggacct agttaggggg tgcaaaaagc aggaggcagg
14821 tcaggtgcag tggctcaccc ctgtaatccc agcactttgg gaggccaaga caggaagatc
14881 acttgagggc aggagttcga ggccagcttg ggcaaaatgg taaaaccccg tctctactaa
14941 aaatgcaaaa attagccagg tgtagcagca tgtccctgta gtcccagcta ctaaggaggc
15001 tgaggcggga ggatcgcctg agcccaagag gctgaggctt cagtaagctg tgactgtacc
15061 attgcactcc agcctgggtg acaagagtga gaccctgtct caaaaataaa taaataaata
15121 aataaaaagt gtgaggcagc ccctcagcat cacacggagg ctccagcccc aaaggcggcc
15181 agcccaagct tggatctggg ccccggaggc agctctgccc agctgggttc ttagacctgg
15241 gattgttact tctagggctg gtgtagaggc agcccctca tcctcagctc ctaatgcttc
15301 ctgctgcccc tcccaggcag gtgatgcttt ccggaagag tccccaggag ctgctgtgtg
15361 gggccagcct catcagtgac cgctgggtcc tcaccgccgc ccactgcctc ctgtacccgc
15421 cctgggacaa gaacttcacc gagaatgacc ttctggtgcg cattggcaag cactcccgca
15481 caaggtacag aactggtggc ccgtgggtgt ctggcagggg tctgagtcct ccaaagcgat
15541 catgaggggc cttggtggct ccgggacaca taggatgttc tgtataccccc ccagaatata
15601 acatcccagc agtctctgct ggaaagccat ttggtcacgt cctgactgag gcttggagcg
15661 cggggagaat ccgtctgtct ctggtccctc caacactagg atatagccca tgtgggagtc
15721 tctgaaaata gagtctgtct ggactagggc gtgcagcctg tgccctgtc cccgtcctcc
15781 aggctgtctg actccaaagc cctgcacggc tttaggccca ggaagaaaca cccagggggc
15841 tgccatggca ggaaccagcc ctatcccctc cctggtggcc tgcaggacac actgtctccc
15901 agaaccccaa gggcaggcag tttcctgctc cttgctgggt gaacctgcag cttctccatt
15961 tctttcttgg ggtctctgca ggtacgagcg aaacattgaa aagatatcca tgttggaaaa
16021 gatctacatc caccccaggt acaactggcg ggagaacctg accgggaca ttgccctgat
16081 gaagctgaag aagcctgttg ccttcagtga ctacattcac cctgtgtgtc tgcccgacag
16141 ggagacggca gccaggtggg ccaccagatg cttgttagct gaggggcaga agccaagttc
16201 tgggcctggc tctgatacca agtagccttg caagagcccc tttcccttt ccaggcctcg
16261 gtttcttgga gtgaacccaa aagttctttt cagtactggc gttttatttt ttatttatat
16321 ttatttattt actgacggag ttccactctt gtctcccagg ctggagtgta gttgtgcgat
16381 cttggctcac tgcaacccca cctcctgggt tcaagcgact ctcctgcctc agtctcctga
16441 gtagctggga ttacaggcta attttttgtat ttttagtaga gactggtggg tttcaccgtg
```

FIGURE 1 (continued)

```
16501 tcggccaggt tggtctcgaa cccctgacct caagtgattc acccgcctcg gcctcccaaa
16561 gtgccgagac cacaggcgtg aacgtctgtg cccagccagc tctggcgttt tagattctgg
16621 tctctaagaa atggcgttgg ggccaggcgg ctcctgtggg ggttggctct cactaggccc
16681 ttcttccttc cccaaagctt gctccaggct ggatacaagg ggcgggtgac aggctggggc
16741 aacctgaagg agacgtggac agccaacgtt ggtaaggggc agcccagtgt cctgcaggtg
16801 gtgaacctgc ccattgtgga gcggccggtc tgcaaggact ccacccggat ccgcatcact
16861 gacaacatgt tctgtgctgg caagtctgtg cagggcgggc tgagggaaca gtggggccca
16921 agctgggaga actgagttgt gcctgggttc aagccatgtg actttgagca agttgcctaa
16981 cctcttggtg gctcagtttc ttcctctgta aaatggaggt aaaagtctct atcccataag
17041 gttatgggag ggttaaatga agtagtatat attaatgtac ttggcatagt atcagtcacc
17101 agtgagctca gatagcagca agaggctgcg ggtagggaaa tgccattcat tcagtcactc
17161 agcaaatatt tattgagcgc ctatcacgtt ccaggcagcg ttctagggta tacagcaggg
17221 acccagacgg acaatgtctg tgccctcaga gagcttcctt cctaggaggg cacatccata
17281 aacagatcta aaacagcaat ccctgaccag tgctgtgaag aaaaatgaag cacagggaga
17341 gagaacggct gatgaagtgg gcttctaaat agggtggcca gacaaggtgg gcagatcact
17401 tgaggtcagg agttcaagac cagcctggcc aacatggtga aaccccgtct ctactaaaaa
17461 tacaaaaatt agctggtcat ggtgacgcat gcctgtagtc gcagctactc aggaggctga
17521 ggcaggagaa ttgcttgagc cagggaggcg gaggttgcag tgagctgaga tcgggcatca
17581 ttgcactcca gctgggcaac acagcaagac tccattgatc gatcgatcaa tcaatcaatc
17641 aggtggccag agaaggttgg agaaggcctc cctgagaagg tgatgtctgg gcagggactg
17701 gaagagggga aggaaggagt gagcaggcat atctagggga ggagcaccgc aggctggggg
17761 catggcaggc actaaggccc tgaggtggga gcactcttgg cttgtctggg gagcagtagg
17821 gaggcctggg gggctgagga ggggcagcag tgggtgaggg gagagagggg ggcaggcaga
17881 ggacagccac ttcctttagg gcctggaagg actttattga gtgagatggg aagttattga
17941 ggggcttgag gcaggttaag aaatgatgtg actgacttta aaagtaaaaa ataaaaaaat
18001 ttagtgtaat ttcagactca cagaaaagtt gtaaaaataa tacaaagatt tcctgtatac
18061 tgtcatccag attgtcctcc attctgtgga tgtgtgggaa tttttatata tatatatgca
18121 tagtttgaga gcaaatcatg aatatggttt cttttaccc ataaatactt gagtatttcc
18181 aaaaaaaaaa aaaatacccca aggatgttct cttatgcaac cacaatacaa atattaaaac
18241 ccggaaattt ttttttgaca tagcttcgcg tcacccaggc ttgagtgcag tggcacaatc
18301 tcggctcact gcaacctcct gctcccaggt tcaagtgatt ctcctgcctc agcctcctga
18361 gtagctggaa tcacaggcat gtactaccat gcctagctaa tttttgtatt tgtagtagag
18421 acagggtttc accatgttgg ccaggtcggt cttgaactcc gacctcaggt gattcacctg
18481 cctcggcctc ccaaagtgct gggattacag gcgtgaacca ctgtactcgg ccaaaaccag
18541 gaaattttt ttttttttg agatggaatc ttgctctgtt gcccaggcta gagtgcagtg
18601 gcatggtctc ggcttacttg gaattacagg tgcctgccac cacgcccggc taacttttg
18661 tattttagt attttagta gtgatggggt ttcaccatgt tggccaggct ggtcttgaac
18721 tcctgacctc gggtaatcca cccacctcgg cttcccaaag tgctgggatt acaggcgtga
18781 gcaccagcac ctggcccaaa accaggaaat taatgatgat acaatattat tgtctaatct
18841 atagacctta ttcaaatttt tgttagtctt gctaatgtct tttatagggā aaaaaaaaaa
18901 aaaaagcgtg tttctcaccc aggattcaat gaaggatctt tctttgtctt ctatgacctt
18961 gacatgtctg atgagtgcag tctggttatt ttgtacactg ccctgaatc cgggtttgtc
19021 taaggtttcc tcacggtcag gttcgggctc agtggtgcca tgtccttctt ggtgcatcct
19081 gttaactggc acatgagaac aatttgtctc atatgtggtg agtctaactc tgacctcttg
19141 aggaaggcaa tgtctgccaa gtttcttgct gtaacttctg tttttccctt tgtaattaat
19201 aagaatctgg taaagagaca ctttgatgtt tttttttttt tttttttttg tgatggagtc
19261 tccctctatc acccgggctg gagtgtgtgg tgcgatctcg gctcactgca acctccatcc
19321 cccaggttca agtgattctc ctgcctcagc ctcccaagta gcaggatta caggcatgtg
19381 ccaccacacc cagctaattt ttgtattttt agtagagatg gggtttcacc atgttggcca
19441 ggatggtctc gaactcctga ccttgtgatc cgtctgcctc agcctcccaa agtgctggga
19501 ttacaggtgt gagccaatac gcctggccta ctttgatatt ttgtattctg tttgcatcaa
19561 aaccttctcc caactagggt gactaccaaa tggcacttat ctaattctgt cattccttct
19621 acatttgtta gttactttat tgctttcctt cctttcattc tatcagtgtg gacttaagga
19681 tccttacttt attctaaggg ttcacctttt ttttctttt ttttgagatg gagtttcgcc
19741 catgttgccc aggctggatg gagtgcaatg gcgtgatctc ggctcactgc aacgtcctcc
```

FIGURE 1 (continued)

```
19801 tcccaggttc aagcaattct cctgcctcag cctcctgagt agctgggatt acaggcatgt
19861 gccaccacgc ctggctaatt ttttgtattt ttagtagaga cagggtttca ccatgttggc
19921 caggctggtc tcgaactcct gacctcaggt gatccgcccg cctcagcctt ccaaggttct
19981 gggattataa gcgtgagctc taccgtgcca ggccatactt tgttactact gttatttttt
20041 ctgatgctca gatgatccca agtttggcct gtggaagtcc cttcaagctg gcttctgtga
20101 cttggggaga tgttctgtca ttctttgagt actttctttc tttctggcac agcaaaatga
20161 ttcaggttaa tcctactttc cttactgtag tgttggaacc agccatttct ccagggaacc
20221 cttgtagtca agagtggaat ttagaactga gatctgggtg ctggcgtgtg cacattgcta
20281 gtgggatgtc attacttcta ggctctctta gtggacagaa ccagaaaaaa attatatgat
20341 gcatatacca atatctctat catctatata aaaaaccatg agttcctact gaaacctcca
20401 attccattct aacaccacag gattaatttt agctttttcct tttccatatt tgtaactctc
20461 tctgttgaca gtgagaaacc tgaccctcat tatctgtaat gcatttgcct atttgaacaa
20521 tactagaata tagtttcaaa atcctccatc cataacacta ttaaaaccaa tcctatggct
20581 gggctcagcc cactgcaacc tctgcctcct ggactcaagc cagcctccca ctttagcctc
20641 ccgagtagcc agggctacag gcacacacca ccatgcccag ctaatttttg tattttttgt
20701 agagactggg tctcactgtg ttgcccagac aggtcttgaa ctctgagctc aagtgatcca
20761 tccaactcag cctcccaaag tgctaggatt acaggtgtga gtcaccatgc ctggcctctc
20821 ctagtaaatt tttagaagtg gtgttgttag gtcaaaaggc aaacatgtat gtcatttttt
20881 agagattttt aaatttcttt ccataagggt tgtaccagtt tgcatttcca tcacagtgta
20941 tgagaatgcc tgtttcccca caaccttgcc aaaagaatgt cacagtttaa attttaccaa
21001 tctgagaggt gagaaatagt acctgaaatt gtttaacgga catcttcaaa ttgaaattga
21061 ggttgacaac gaatcatagt taggaccttt tttttttttt ttttgagtg ggtctcctcg
21121 tcaccaagct gagtgcatgg cacgatttgc tcactgcaac ttccgccttc tgggttcaag
21181 cgattctcct gcttcagcct cccaagcagc tgggactcca ggcgcgagtc accatgcccg
21241 ctaatttttg tatttttagt agagacaggg ttttaccaga ttggccaggc tggtctcgaa
21301 ctccttacct tgtgatcctc ccgcctcggc ctcccaagt gctgagatta caggcatgag
21361 ccaccacgcc tggcctaagg accattttta tataatttt ttttgagac agagtcttgc
21421 tttgtcaccc aggctggagt gcaatggtgc aatcttggct cactgcagcc tccacttccc
21481 tggttcaagt gattctcctg cctcagcctc ccgagtagct ggttccacag gtgcgtgcct
21541 ggctagtatt tgtattatat aattttttttg tgaattgtct cttcatggtt ttttgcccat
21601 tttttggtcc ctttcttatc aattttttgtg agttcttcgt atttatatta ggcctttatt
21661 tgtgatatac attgcaaatg ttttctccta gtttgtcagt tttttttaacc tcatgtataa
21721 tttttctggc catgcagttt aaaaaattac taggtagtca aatttatcaa tcattattta
21781 taaatctggt ttgaacagag ataaactttc ctggccaagt gtggtgttta cacctgtaat
21841 cccagcactc tgagaggctg aggtggggat cacctgaggt cagaagttca agaccagcct
21901 ggccaacatg gtgaaaccct gtctctacta aaaatacaaa aattagctgg gcgtggtggc
21961 tgatgcctgt agtcccagct actcaggaga ctgaggctgg agaattgctt gaacctggga
22021 ggcggaggtt gcagtgagca gagatcgtgc cgctgcactc cagcctgggt gacagagcaa
22081 gactctgtct caaaaacaaa cgacaaaaa acaacaacag aaaagccttt cctgatagct
22141 aggtcattga ggaattcact catgttttct tctagtacct gatttcattt ttctgcactt
22201 agattcctga ctcatatgga gtttattttt gtatctgatg tgaggcatag atctaattta
22261 ttattttcca aatggctaac tagctgtctc taaacccttt attaaaaatt attggccaag
22321 tgcggtagcc acacctgtaa tcccagcagt ttggaaggct gaggcaggat tgcttgaggc
22381 caggaattca aaaccagccc agacaacata gcaagaccct gtctctacaa gaaaatattg
22441 gtcaggtgtg gtggctcacg cctataatcc cagcactttg ggaggctgag gcaggtggat
22501 catgaggtca ggagatagag accatcctgg ccaacatggt gaaaccctcg tctctactaa
22561 aatacaaaaa attagctggg tgtggtggcg catgcctgta gtaccagcta ctcaggaggc
22621 tgaggcaggg gaatcatttg aacccaggag gtggaggttg cagtgagctg agatcacgcc
22681 attgaactcc agcctggcga cagagcaaga ctccatctca aaaaaaaag gaaaagaaa
22741 atattttaaa aattagctgg gcatggtggc atgtgccttg tagtctcagc tacttgagag
22801 gctgagttag gaggattgct tgagcctagg agttcaatac tgcagtgagc tatgaccgca
22861 ccattgcact ccagcctggg caacagagtg agaccctgtt tctattaaaa aaaaaaatc
22921 ggctgggcgc ggtggctcac gcctgtaatc ctagcacttt gggaggccga ggcgagcgga
22981 tcacctgagg tcaggagttc aagaccagcc tgaccaacat ggaaaaaccc tgtctctgct
23041 aaaaatacaa aattagccag acatggaggc acatgtctgt aatcccagct actcgggagg
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FIGURE 1 (continued)

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23101 ctgaggcagg agaatcgctt gaacctggga gacggaggtt gcagtgagct gagatccctc
23161 cattgcactc cagcctgggc aacaagagta aaaactccgt ttcgccaggt gcggtgactc
23221 acacctgtaa tcccagcact ttgggaggcc gaggtgggtg aatcacaagg tcaggagttt
23281 gagacaagcc tggccgacat ggtgaaaccc catctctact aaaatacaaa aaattagcct
23341 ggcatggtgg tgtgcgcctg taatcccagc tacttgggag gctgaggcag gggaatcact
23401 tgaacctggg aggaggaggt tgcagtgagc cgagatggtg ccactgcact ccagcctggc
23461 aacagagcga gactctatct caaaatcaat caatcaatca atcaatcttt gaactagtga
23521 tttgagattt cacctttatc acattctaga ttgtatctta ttttcattta tttatttgaa
23581 atatagacaa gtctccctgt gctgcccagg ctgatttcaa actcctggct gggctcgagc
23641 aagtctcccg ccttggcctc ccaaactgct gggattacag acgtgagcca ccatacctga
23701 cccaggtttt atttttagt tttattttt cctgcatcca gctaatttga tttgatttgt
23761 agagacgggg tcttgctatg ttacctaggc tggtctcgaa ctcttgggct caagtgatcc
23821 tcctaccttg gcctcccaaa gtgttgggat taccagcatg agccacggtg cccagcccca
23881 cgttctagat ttctatggat agagtatgct taaggatgag tatgtttctg gatgttcgac
23941 tcggctttcc tggtctgttg tctgtctgtg tacagcgtca cattgtttta atgatagagg
24001 cttttagcgta catagctggg aaggctaatg ttctctttta gtttttcttt ccagtggttt
24061 cctggcaatt cttgcatgtt tgttttcca tatgaacttt agtgtcaaca tgcctaggtc
24121 tataaaaaag cttggtggta attttattgg gattatgaca cttcaacaaa ttaactggga
24181 gaatgaacat attttgatg ttgagtcatt ttatccaagg ataagaaacg ttttcctatt
24241 tgctcaagtc tattattgta tctttcttga ctgctgcaat gtattctctt ataattttt
24301 ctattggtat cttattttat gtatttgtaa tatcttattt ttcttgagta aattagttaa
24361 tggcttgccg gttttctcaa aacaaatatc tagggatttg atttatgaaa ttattaggcc
24421 tattatttt ctttttttg agatggagtc tcactctgtc gcccaggctg gagtgcagtg
24481 gcgtgatctc agctcactgc aacctccacc tcctgggttc aagtgattct cctgcctcag
24541 cctccccagt agctggggtt acaggtgcac gccaccatgc ccggctaatt tttttatatt
24601 tttagtagag acggggtttc accatgttag ccaggctggt ctcgaactcc tgacctcatg
24661 atccgactgc ctcagcctcc caaagtgctg ggattacagg tgtgagccac cgtgcctggc
24721 ctttttttt tttttttgag acagagtctt gctctgtcac ccaggctgga gtgcagtggt
24781 gcgatctcgg ctcactgaaa gctccacctc ccgggttcac gccatcctcc tgcctcagcc
24841 tcccgagtag ctgggactac aggtgtacac tgccacgccc agctaatttt ttgtatttag
24901 tagagacagg gtttcaccgc gttcgccagg atggtctcga tctcctgacc ttgtgatccg
24961 cctgcctcag cctcccaaag tgctggtatt acgggcgtga gccactgcgc ccggccaggc
25021 ctattatttt tctattgtgg ttcattaatt tctgctttt tctcttaaaa agtttgctta
25081 cgttttgtc tggtttactt tgctgttctc ttgctagctt tttttttttt cagatagggt
25141 cttgctctgt tgcccaggct ggagtgcagt ggcacagtca tagctcactg cagccttgaa
25201 ctcctgggct caagcaatcc tcttcttgct tcagcctccc acgtagctag gatcagaggt
25261 acatgccacc atgttcggct aatttttttt tttcgagaca gagtcttgtt ctgtcgctca
25321 ggcggtagtg cagtggtgca atcccggctc actgcaacct ccacctccac ctcccaggtt
25381 caagcaattc tacctcagtc tcctgagtag ctgggattat aggcgcacac caacatgtct
25441 ggctaatttt tgtatttta gtagagacag ggtttcacca cgttggctag gctggtctta
25501 aactcctgac ttcatgatcc gcccgccttg gcctcccaaa gtgctgagat tacaggtgtg
25561 agccacagca cctagtgaaa gtgtggtttt tttgtgtagg ttttactgtt gttagtgttg
25621 ttctgtattg tttgtagagg atacgtgggg agatttggat aaaagcaact atcattatta
25681 tcctcatcag acttgtaggt ctaactttt aatttttaa tttttaattt aaattttttt
25741 cttggtcttt tatcattaat taatttttc gagacagggt ctcactctgt tgcccaggct
25801 ggagtgtggt gacatgatca cggctcactg cagccttaac ctcccaggtg caagtgatcc
25861 tcctctctta gcctcccgag tagctgggac tccaggcatg tgccaccatg cccagctaat
25921 tttttgtaga gagagggttt tgccatattg cccaggctgg tcttgaactg ctgagctcaa
25981 gtgatccacc cggcttgggc atgagccacc tccctggtc tggtccaact ttttaaaagc
26041 attattctgc ctgttgggtg gagaatagac tgtaggtggg caaagaatga aggaaactag
26101 tgggttcagg agctcgagct agaagtggtg agaagggttt ggatttgggg tctatgctga
26161 aggtagagcc gacaagattt gctaggattg gatgtgtagg gtgaggaagt ggggacagca
26221 agaatgactg gaggggtaag tggactctca ccagctgtgt ctcgtgaagg ggcgtggctg
26281 ggctatgagc tatgctcctg agcacagacg gctgttctct ttcaaggtta caagcctgat
26341 gaagggaaac gagggggatgc ctgtgaaggt gacagtgggg gaccctttgt catgaaggta
```

FIGURE 1 (continued)

```
26401 agcttctcta aagcccaggg cctggtgaac acatcttctg ggggtgggga gaaactctag
26461 tatctagaaa cagttgcctg gcagaggaat actgatgtga ccttgaactt gactctattg
26521 gaaacctcat ctttcttctt cagagccccct ttaacaaccg ctggtatcaa atgggcatcg
26581 tctcatgggg tgaaggctgt daccgggatg ggaaatatgg cttctacaca catgtgttcc
26641 gcctgaagaa gtggatacag aaggtcattg atcagtttgg agagtagggg gccactcata
26701 ttctgggctc ctggaaccaa tcccgtgaaa gaattatttt tgtgtttcta aaactatggt
26761 tcccaataaa agtgactctc agcgagcctc aatgctccca gtgctattca tgggcagctc
26821 tctgggctca ggaagagcca gtaatactac tggataaaga agacttaaga atccaccacc
26881 tggtgcacgc tggtagtccg agcactcggg aggctgaggt gggaggat
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FIGURE 2

```
mahvrglqlp  gclalaalcs  lvhsqhvfla  pqqarsllqr  vrrantflee  vrkgnlerec  61
veetcsyeea  fealesstat  dvfwakytac  etartprdkl  aaclegncae  glgtnyrghv  121
nitrsgiecq  lwrsryphkp  einstthpga  dlqenfcrnp  dssttgpwcy  ttdptvrrqe  181
csipvcgqdq  vtvamtprse  gssvnlsppl  eqcvpdrgqq  yqgrlavtth  glpclawasa  241
qakalskhqd  fnsavqlven  fcrnpdgdee  gvwcyvagkp  gdfgycdlny  ceeaveeetg  301
dgldedsdra  iegrtatsey  qtffnprtfg  sgeadcglrp  lfekksledk  terellesyi  361
dgrivegsda  eigmspwqvm  lfrkspqell  cgaslisdrw  vltaahclly  ppwdknften  421
dllvrigkhs  rtryerniek  ismlekiyih  prynwrenld  rdialmklkk  pvafsdyihp  481
vclpdretaa  sllqagykgr  vtgwgnlket  wtanvgkgqp  svlqvvnlpi  verpvckdst  541
riritdnmfc  agykpdegkr  gdacegdsgg  pfvmkspfnn  rwyqmgivsw  gegcdrdgky  601
gfythvfrlk  kwiqkvidqf  ge
```